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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/705,914	11/13/2003	Gee-Sung Chae	8733.894.00-US 7320	
30827 MCKENNA LO	7590 08/02/2007 ONG & ALDRIDGE LLP	EXAMINER		
1900 K STREE	ET, NW	NGUYEN, LAUREN		
WASHINGTON, DC 20006			ART UNIT	PAPER NUMBER
			2871	
			MAIL DATE	DELIVERY MODE
			08/02/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary    Lauren Nguyen			Application No.	Applicant(s)		
Lauren Nguyen  2871  - The MAILING DATE of this communication appears on the cover sheet with the correspondence address - Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions of the many be available under the provision of 30 FCR 1.30(6), in ne event, however, may a reply to themy lifed after \$1X, (6) MONTHS from the nailing date of this communication. Failute to prey within the sat or exceeded principle reply will, by statute, uses the suplication to become ABANDONE C6 U.S. 0.5. (193). Any reply received by the Office later than these months after the mailing date of this communication. Failute to prey within the sat or exceeded principle reply will, by statute, uses the suplication to become ABANDONE C6 U.S. 0.5. (193). Any reply received by the Office later than these months after the mailing date of this communication, even if timely filed, may reduce any scand principle than displayment. Set 30 °CR 1.704(b).  Any reply received by the Office later than the months after the mailing date of this communication, even if timely filed, may reduce any scand principle than displayment. Set 30 °CR 1.704(b).  Any reply received by the Office later than the months after the mailing date of this communication, even if timely filed, may reduce any scand principle.  4) Claim(s) 122 is/are pending in the application is non-final.  3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 122 is/are pending in the application.  5) Claim(s) 15/are allowed.  6) Claim(s) 15/are allowed.  6) Claim(s) 15/are allowed.  6) Claim(s) 15/are allowed.  7) Claim(s) 15/are objected to by the Examiner.  Application Papers  9) The specification is objected to by the Examiner.  Application Papers  9) The drawing(s) filed on 15/a	Office Action Summary		10/705,914	CHAE ET AL.		
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Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after \$16, (MONTHS form the mailing date of this communication.  Falave for reply within the rest or extended period for reply with by standing, cause the application to become ABANDONED (58 U.S.C. § 133). Any reply received by the Office later than there morths after the mailing date of this communication, even if timely filed, may reduce any earned patient term adjustment. See 37 CFR 1.704(b).  Status  1)  Responsive to communication(s) filed on 13 November 2003.  2a)  This action is FINAL.  2b)  This action is final.  3)  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4)  Claim(s)			Lauren Nguyen	2871		
WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be available under the provisions of 37 CR1 1.35(6). In no event, because, an epy be limby field after \$1K (8) MOTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statetory period will apply and will expire SIX (6) MOTHS from the mailing date of this communication.  Any reply received by the Office bater than three months after the mailing date of this communication, even if timely field, may reduce any earned patient term adjustment. See 37 CFR 1.704(b).  Status  1) Responsive to communication(s) filled on 13 November 2003.  2a) This action is FINAL.  2b) This action is non-final.  3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 1-21 is/are pending in the application.  4) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) 1-21 is/are rejected.  7) Claim(s) is/are allowed.  6) Claim(s) is/are objected to.  8) Claim(s) 1-21 are subject to restriction and/or election requirement.  Application Papers  9) The specification is objected to by the Examiner.  10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2			ears on the cover sheet with the c	orrespondence address		
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2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date  5) Notice of Informal Patent Application	1) Notice 2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	ate		

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Art Unit: 2871

## Election/Restrictions

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1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

I. Claims 1-8 and 17-21, drawn to an array substrate for liquid crystal display device, classified in class 349, subclass 43.

II. Claims 9-16, drawn to a manufacturing method of an array substrate for liquid crystal display device, classified in class 349, subclass 187.

The inventions are distinct, each from the other because of the following reasons:

- 2. Inventions II and I are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make another and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case, the product as claimed in group I can be made by another and material different process other than the process as claimed in group II (e.g., the signal line can be formed by using sputtering method).
- 3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II, restriction for examination purpose as indicated is proper

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- 4. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even thought the requirement be traversed (37 CFR 1.143).
- 5. This application also contains claims directed to the following patentably distinct species:

  Upon the selection of group II invention, applicant is required to choose one of:
  - A1. The copper compound being formed in a processing chamber where a gas flows that chemically combines with the copper (cf. claim 10).
  - A2. The copper compound being formed in a processing chamber where a gas flows that does not chemically combine with the copper (cf. claim 13).
- 6. The species are independent or distinct because claims to the different species recite the mutually exclusive characteristics of such species. In addition, these species are not obvious variants of each other based on the current record.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, the claims not referred to above are generic.

There is an examination and search burden for these patentably distinct species due to their mutually exclusive characteristics. The species require a different field of search (e.g., searching different classes/subclasses or electronic resources, or employing different search queries); and/or the prior art applicable to one species would not likely be applicable to another species; and/or the species are likely to raise different non-prior art issues under 35 U.S.C. 101 and/or 35 U.S.C. 112, first paragraph.

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Applicant is advised that the reply to this requirement to be complete <u>must</u> include (i) an election of a species to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

The election of the species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the election of species requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable on the elected species.

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the species unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other species.

- 7. Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141.
- 8. Restriction for examination purposes as indicated is proper because all these inventions listed in this action are independent or distinct for the reasons given above <u>and</u> there would be a

serious search and examination burden if restriction were not required because one or more of

the following reasons apply:

(a) the inventions have acquired a separate status in the art in view of their different

classification;

(b) the inventions have acquired a separate status in the art due to their recognized

divergent subject matter;

(c) the inventions require a different field of search (for example, searching different

classes/subclasses or electronic resources, or employing different search queries);

(d) the prior art applicable to one invention would not likely be applicable to another

invention;

(e) the inventions are likely to raise different non-prior art issues under 35 U.S.C. 101

and/or 35 U.S.C. 112, first paragraph.

Applicant is advised that the reply to this requirement to be complete <u>must</u> include

(i) an election of a invention to be examined even though the requirement may be traversed (37)

CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention may be made with or without traverse. To reserve a right to

petition, the election must be made with traverse. If the reply does not distinctly and specifically

point out supposed errors in the restriction requirement, the election shall be treated as an

election without traverse. Traversal must be presented at the time of election in order to be

considered timely. Failure to timely traverse the requirement will result in the loss of right to

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which of these claims are readable on the elected invention.

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If claims are added after the election, applicant must indicate which of these claims are readable upon the elected invention.

- 9. Should applicant traverse on the ground that the inventions are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.
- 10. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lauren Nguyen whose telephone number is (571) 270-1428. The examiner can normally be reached on M-F, 7:30-5:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on (571) 272-1787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

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system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Lauren Nguyen

July 24, 2007

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